Application No. Applicant(s) 10/649,206 Examiner LU ET AL. Art Unit Notice of Allowability

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	Ling-Siu Choi	1713	
The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	(OR REMAINS) CLOSED in this app or other appropriate communication IGHTS. This application is subject to	plication. If not include will be mailed in due	ed course. THIS
1. This communication is responsive to <u>05-13-2004</u> .			
2. The allowed claim(s) is/are <u>1-18</u> .			
3. The drawings filed on 27 August 2003 are accepted by the	Examiner.		
4. Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give 6. CORRECTED DRAWINGS (as "replacement sheets") mus (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in to 7. DEPOSIT OF and/or INFORMATION about the deponent attached Examiner's comment regarding REQUIREMENT	e been received. been received in Application No cuments have been received in this is of this communication to file a reply fient of this application. itted. Note the attached EXAMINER' es reason(s) why the oath or declarate of the submitted. Son's Patent Drawing Review (PTO- s Amendment / Comment or in the Or s Amendment / Comment or in the Or stop is to be submitted on the drawing he header according to 37 CFR 1.121(c) sit of BIOLOGICAL MATERIAL in	national stage applical complying with the red S AMENDMENT or Nation is deficient. 948) attached office action of the front (not the fi). nust be submitted. National contents of the submitted.	quirements OTICE OF
 Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/O Paper No./Mail Date	5. Notice of Informal P 6. Interview Summary Paper No./Mail Dat 7. Examiner's Amenda 8. Examiner's Stateme 9. Other	(PTO-413), e nent/Comment	,

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DETAILED ACTION

1. This Office Action is in response to the Amendment filed May 13, 2004. Claims 19-20 were canceled and claims 1-18 are now pending.

Allowable Subject Matter

- 2. Claims 1-18 are allowed.
- 3. The following is an examiner's statement of reasons for allowance:

The present claims are allowable over the closest reference: Kaus et al. (US 4,347,158) and Matsuno et al. (JP 54-122387).

The present invention is directed to an olefin polymerization catalyst containing

A	a solic	olid catalyst component obtained by copulverizing			
	· !	(a) magnesium compound [Mg(OR) _{2-n} X _n]			
		(b) an aluminum compound [Al(OR')3]			
		(c) an organic electron donor containing at least one atom [oxygen,			
		silicon, nitrogen, sulfur, and phosphorus atoms]			
		(d) a titanium compound			
В	an org	ganoaluminum compound			

(summary of claim 1)

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catalyst component and (B) triethyl aluminum, wherein the catalyst component is prepared by the steps of (a) co-comminuting a magnesium chloride support base and aluminum trichloride, (b) co-comminuting anisole with the resulting product from step (a), (c) co-comminuting the resaulting product with ethyl benzoate, and (d) co-comminuting titanium tetrachloride with the resulting product from step (c) (Example 1-col. 10, line 35; claims 13-14). Kaus et al. further disclose that the polymerization of propylene is carried out at 70°C (col. 10, lines 44-45). However, Kaus et al. do not teach or fairly a catalyst comprising Al(OR)₃.

Matsuno et al. disclose a catalyst comprising (A) a solid component and (B) an organometallic compound, wherein the solid component is prepared by <u>pulverizing</u> (a) a reaction product of **magnesium** oxide and **aluminum** trichloride, (b) an **ester**, and (c) a **titanium** compound (abstract). However, Matsuno et al. do not teach or fairly suggest a catalyst comprising Al(OR)₃.

In light of the above discussion, it is evident as to why the present claims are patentable over the prior art.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

4. Any inquiry concerning this communication or earlier communications from the

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examiner should be directed to Ling-Siu Choi whose telephone number is 571-272-1098.

If attempt to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Wu, can be reached on 571-272-1114.

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Ling-Siu Choi

June 8, 2004